



## PATENT ABSTRACTS OF JAPAN

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**SHIMOZU MASATERU**

(54) **GAS SEPARATOR OF SOLID ELECTROLYTE FUEL CELL, MANUFACTURE OF SEPARATORS, AND FUEL CELL USING GAS SEPARATOR**

oxide film (coating layer 7) provided on the surface of the oxide plate.

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(57) Abstract:

PROBLEM TO BE SOLVED: To provide a gas separator for a fuel cell using solid electrolyte, which has excellent resistance against thermal shock, assures enhanced productivity, and can be manufactured at a low cost.

SOLUTION: A number of unit cells are laminated to form a fuel cell with solid electrolyte, and the configuration includes a separator body consisting of an oxide plate having electric insulating property and an electron passage consisting of electroconductive oxide furnished penetrating the separator body, wherein separator bodies are installed between the unit cells which are connected electrically and each separator partitions into a passage for the fuel gas supplied to the unit cells and a passage for oxygen-containing gas, and each separator body consists of a porous oxide plate (porous fire-resistant brick layer 6) and a dense

